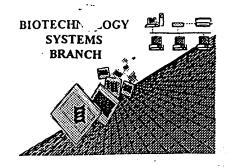
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/810,	F61 A		
Source:	OTPE		en e	
Date Processed by STIC:	7/5/200	<u> </u>	EST AVAILABL	E COPY

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

DATE: 07/05/2001

TIME: 10:31:39

OIPE

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              Hermona, Soreq
                                                                        see page 5
      5
               Charles, Arntzen
              Hugh, Mason
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/810,861A

RAW SEQUENCE LISTING DATE: 07/05/2001 PATENT APPLICATION: US/09/810,861A TIME: 10:31:39

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368	cagatggaaa	Cadccascac	gcagettege	ttcctctaca	aggcgggttt	ttcqqccqqq	3480
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RAW SEQUENCE LISTING

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438	tatccacaga	cagaaaatcc	agcatttgca	agggtttccg	cccgtttttc	ggccaccgct	5580
440	aacctgtctt	ttaacctgct	tttaaaccaa	tatttataaa	ccttgttttt	aaccagggct	5640
442	gegeeetgtg	cgcgtgaccg	cgcacgccga	aggggggtgc	cccccttct	cgaaccctcc	5700
444	cggcccgcta	acqcqqqcct	cccatccccc	caggggctgc	gcccctcggc	cgcgaacggc	5760
446	ctcaccccaa	aaatggcagc	gctggcagtc	cttgccattg	ccgggatcgg	ggcagtaacg	5820
448	ggatgggcga	tcagcccgag	cgcgacgccc	ggaagcattg	acgtgccgca	ggtgctggca	5880
450	tcgacattca	gcgaccaggt	gccgggcagt	gagggcggcg	gcctgggtgg	cggcctgccc	5940
452	ttcacttcgg	ccqtcqqqqc	attcacggac	ttcatggcgg	ggccggcaat	ttttaccttg	6000
454	ggcattcttg	gcatagtggt	cgcgggtgcc	gtgctcgtgt	tcgggggtgc	gataaaccca	6060
456	gcgaaccatt	tgaggtgata	ggtaagatta	taccgaggta	tgaaaacgag	aattggacct	6120
458	ttacagaatt	actctatgaa	gcgccatatt	taaaaagcta	ccaagacgaa	gaggatgaag	6180
460	aggatgagga	ggcagattgc	cttgaatata	ttgacaatac	tgataagata	atatatcttt	6240
462	tatatagaag	atatcgccgt	atgtaaggat	ttcagggggc	aaggcatagg	cagcgcgctt	6300
464	atcaatatat	ctatagaatg	ggcaaagcat	aaaaacttgc	atggactaat	gcttgaaacc	6360
466	caggacaata	accttatage	ttgtaaattc	tatcataatt	gggtaatgac	tccaacttat	6420
	F.	[L :					
	01 11-1	-					

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 07/05/2001

PATENT APPLICATION: US/09/810,861A

TIME: 10:31:40

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07052001\1810861A.raw

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER:	09/810,861A
ATTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HE		•
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapp was retrieved in a word processor after creating prevent "wrapping."		
2Invalid Line Length	The rules require that a line not exceed 72 char	acters in length. This inclu	des white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is minuse space characters, instead.	saligned. Do not use tab co	odes between numbers;
4Non-ASCII	The submitted file was not saved in ASCII(DO ensure your subsequent submission is saved		Sequence Rules. Please
5Variable Length	Sequence(s) contain n's or Xaa's represente each n or Xaa can only represent a single res residue having variable length and indicate in the	idue. Please present the m	aximum number of each
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the sequences(s) Normally, PatentIn previously coded nucleic acid sequence. Please the subsequent amino acid sequence. This app Artificial or Unknown sequences.	n would automatically gene manually copy the relevan	rate this section from the t <220>-<223> section to
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, plea (2) INFORMATION FOR SEQ ID NO:X: (insection of the sequence CHARACTERISTICS: (xi) SEQUENCE DESCRIPTION:SEQ ID NO: This sequence is intentionally skipped	ert SEQ ID NO where "X": (Do not insert any subhead	lings under this heading)
	Please also adjust the "(ii) NUMBER OF SEQU	JENCES:" response to incl	ude the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, pl <210> sequence id number <400> sequence id number 000	ease insert the following lin	nes for each skipped sequence.
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Per 1.823 of Sequence Rules, use of <220>-<22 In <220> to <223> section, please explain located in the section of the sec	3> is MANDATORY if n'	
10 Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <2 scientific name (Genus/species). <220>-<223> is Artificial Sequence		
11Use of <220>	Sequence(s) missing the <220> "Feat Use of <220> to <223> is MANDATORY if <2 "Unknown." Please explain source of genetic in (See "Federal Register," 06/01/1998, Vol. 63, N	213> "Organism" response naterial in <220> to <223>	section.
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Paresulting in missing mandatory numeric identificating). Instead, please use "File Manager" or a	ers and responses (as indicated	nted on raw sequence